

Claims

- Sub B67
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- Sub A1
- 200409174-020802
1. Arrangement in a sheet-metal forming tool (7) comprising a first part (2) for performing a reciprocating movement, produced by means of a drive arrangement (3), in relation to a second part (4) fixed to a stand, and a bearing (5) arranged between the parts, of which the first part (2) has elements (6) for forming or machining a held sheet (1) **characterised in that** the bearing (5) comprises at least one wheel (5a) on a shaft (5b) arranged on one of the parts (2) and a running surface (5c) for the said wheel (5a) on the remaining part (4), the said surface facing the wheel (5a) and defining the movement of the first part (2).
  2. Arrangement according to claim 1, **characterised in that** there are at least two wheels (5a) on the shaft (5b) arranged at a distance from one another.
  3. Arrangement according to either of the preceding claims, **characterised in that** each wheel (5a) is enclosed by a housing (8), from which only a fraction of each wheel (5a) protrudes through an opening (10) facing the running surfaces (5c).
  4. Arrangement according to any of the preceding claims, **characterised in that** the opening (10) lies substantially close up to each wheel (5a).
  5. Arrangement according to any of the preceding claims, **characterised in that** the shaft (5b) is fixed to the part (2) designed with the forming or machining element (6), and that the wheels (5a) are rotatably supported on the shaft (5b).
  6. Arrangement according to any of claims 1-4, **characterised in that** the shaft (5b) is fixed to the part (4) fixed to a stand, and that the wheels (5a) are rotatably supported on the shaft (5b).
  7. Arrangement according to any of the preceding claims, **characterised in that** a sealing arrangement (9) is designed to form a seal between the first part (2) and the second part (4) and to substantially enclose the above-mentioned fraction of each wheel (5a).
  8. Arrangement according to any of the preceding claims, **characterised in that** the arrangement (9) comprises a U-shaped seal (9b) arranged on the second part (4) and an I-shaped seal (9a), arranged on the first part (2) and extending between the

legs of the U-shaped seal (9b).

9. Arrangement according to any of the preceding claims, characterised in that the distance between the parts (2, 4) is less than the thickness of the sheet (1).
10. Arrangement according to any of the preceding claims, characterised in that the radial distance between the peripheral surface of each wheel (5a) and its pivot bearing (5d) is greater than the distance between the parts (2, 4).

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